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Tetrahedron Letters

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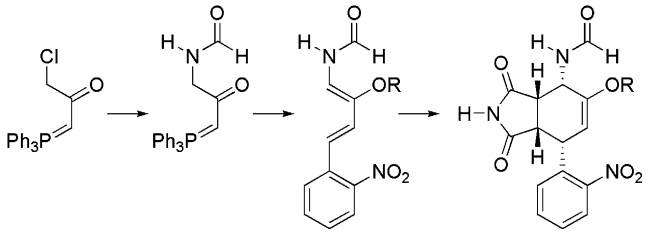
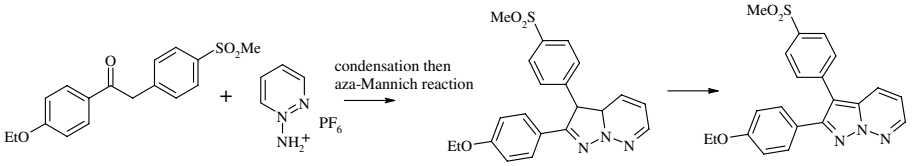
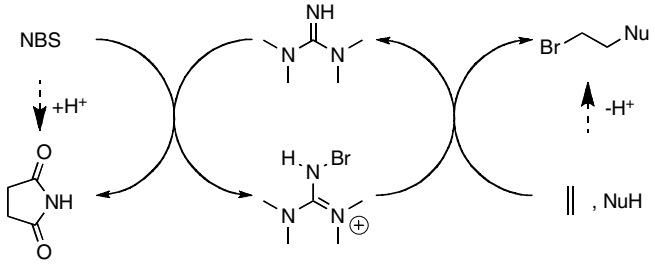
Contents

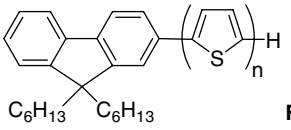
COMMUNICATIONS





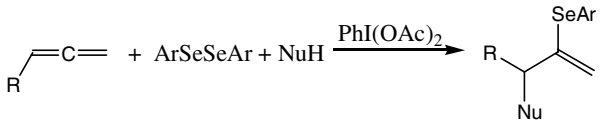
An efficient synthesis of the selective COX-2 inhibitor GW406381X is described via a novel intramolecular Mannich-type cyclisation to construct the pyrazolo-[1,5*a*]-pyridazine heterocyclic core.

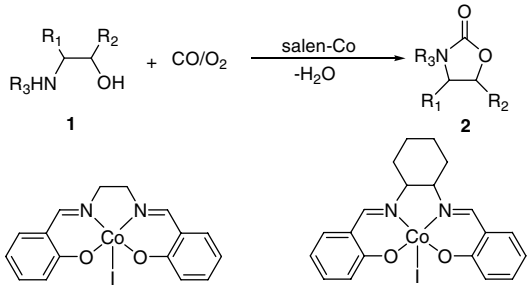


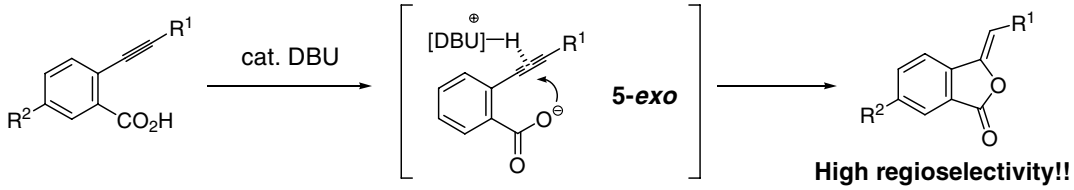


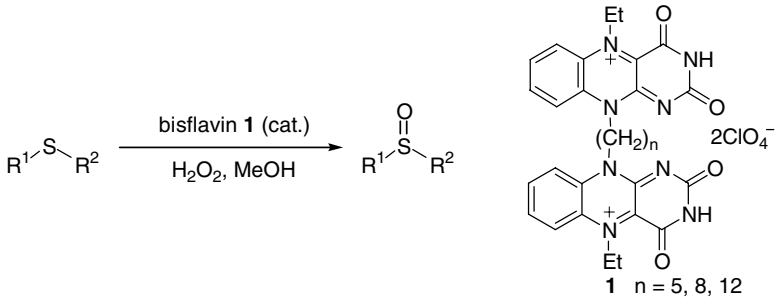
FTn (n = 1-5)

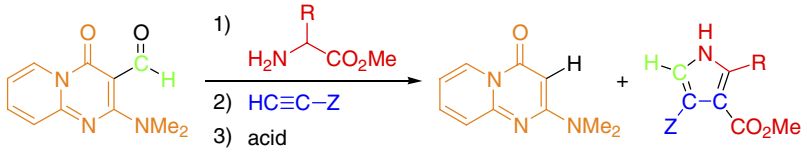
The synthesis and structural and physical properties of a series of new α-fluorenyl oligothiophenes up to the pentamer are reported. The optical, electrochemical, and thermal properties of these materials vary with the number of thiophene rings.

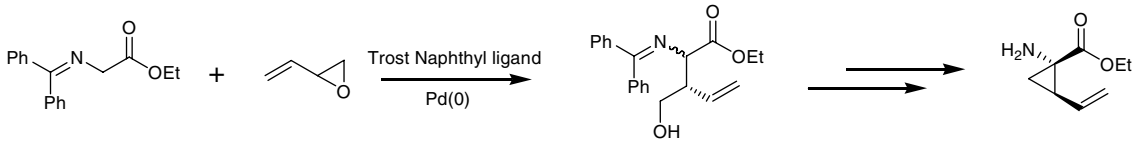




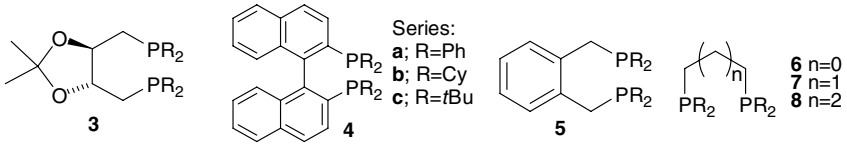




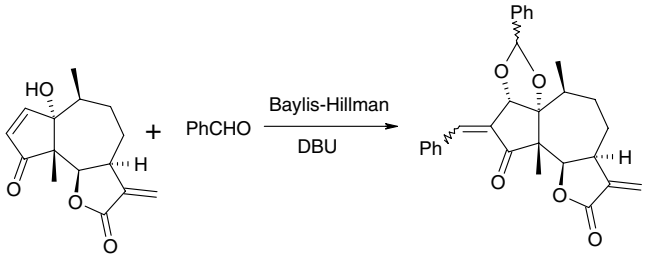


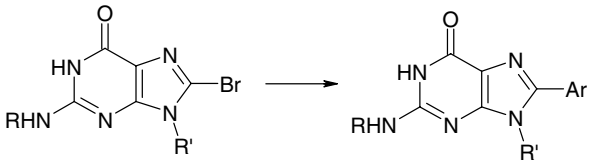


The asymmetric synthesis of (1*R*,2*S*)-dehydrocoronamic acid ethyl ester using palladium-catalysed nucleophilic ring-opening of 3,4-epoxy-1-butene with a glycine anion equivalent as the key enantiodifferentiating step is described.

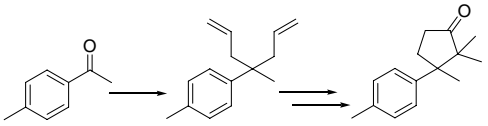


A series of ligands have been prepared for use in Pd-catalysed coupling reactions to form C–C and C–N bonds; significant differences are exhibited by similar ligands containing different phosphorus substituents.

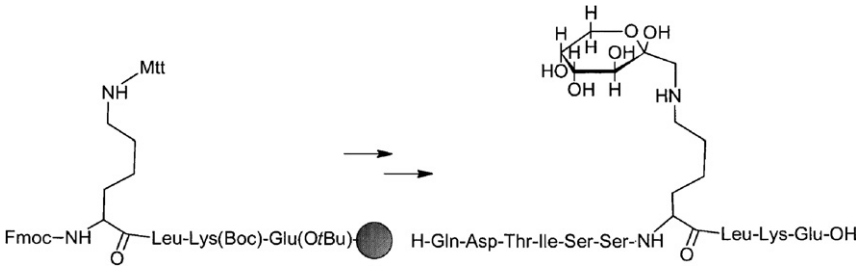


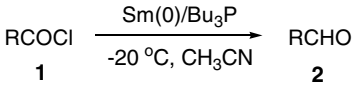


Reaction of 8-bromoguanines with aryl or hetaryl stannanes in the presence of a palladium catalyst and triphenylarsine or triphenylbismuth ligands leads to the formation of the corresponding 8-aryl(hetaryl)guanines in excellent yields.



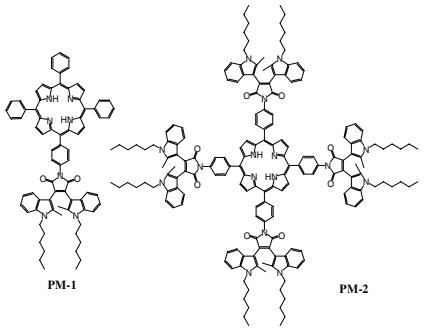
A short and concise total synthesis of α-cuparenone employing one-pot diallylation and RCM as the key steps is described.

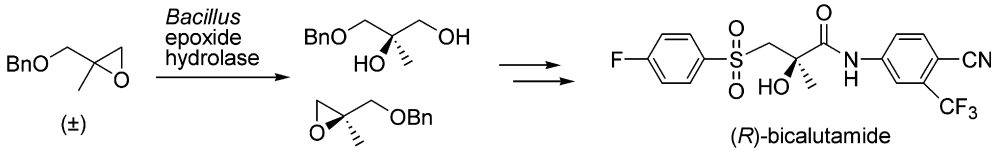


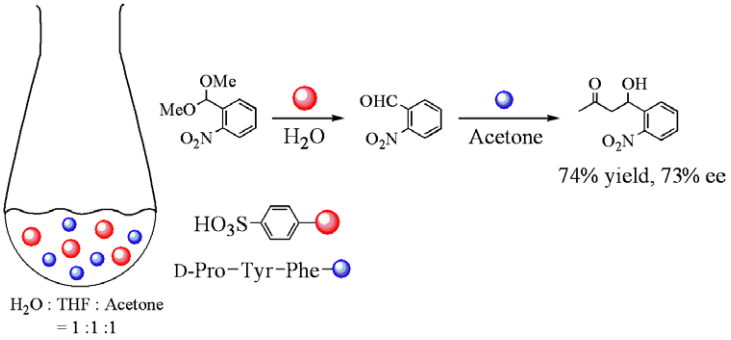


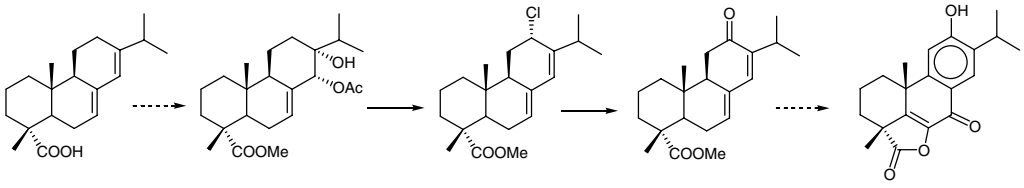
A facile and efficient reduction of aromatic and aliphatic acyl chlorides to their corresponding aldehydes in the presence of Sm(0)/Bu_3P has been developed with a broad scope. This method prevents over-reduction of products, that is, the over-reduction of aldehydes to alcohols.

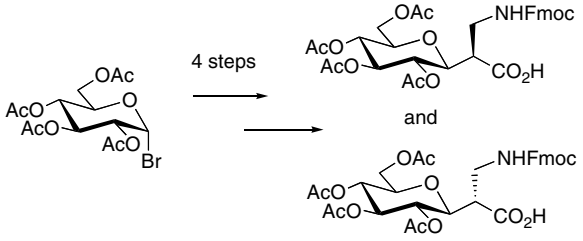
Novel soluble porphyrin–bisindolylmaleimides dyad and pentamer were prepared in which the bisindolylmaleimide groups function as the antenna to enhance intramolecular energy transfer to the porphyrin core. These compounds are good candidates of red-light emitting materials for organic light-emitting diodes (OLEDs).

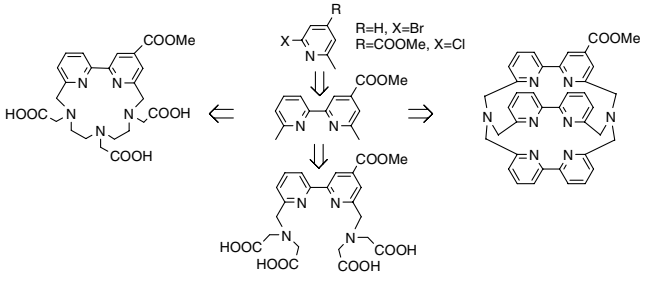


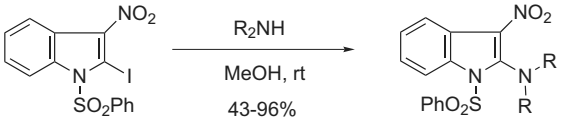




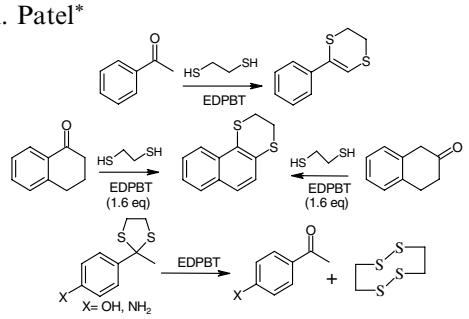


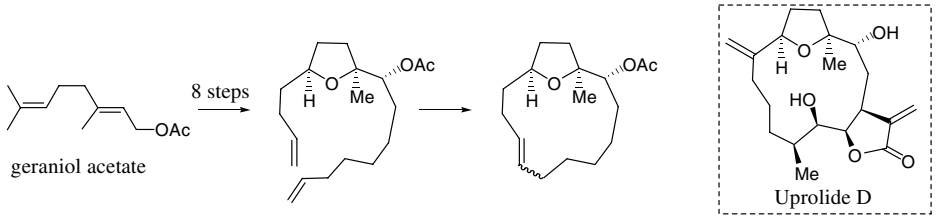


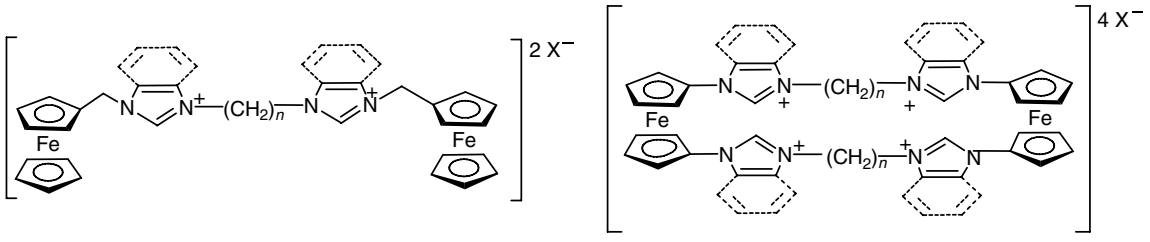




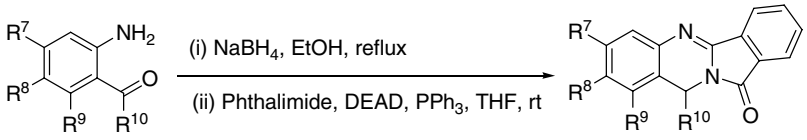
R_2NH = Me_2NH, Et_2NH, Bn_2NH, piperidine, pyrrolidine, morpholine, *N*-methylpiperazine, cyclohexylamine



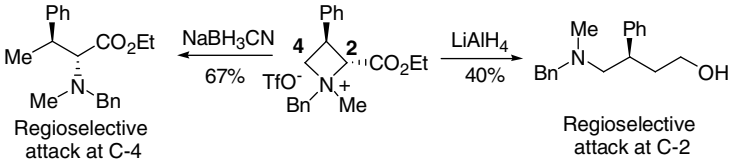


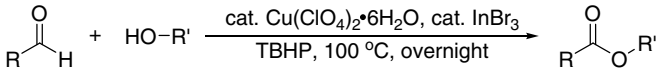


We report the synthesis, catalytic, and biological properties of new bridged and cyclic ferrocenyl azolium compounds.

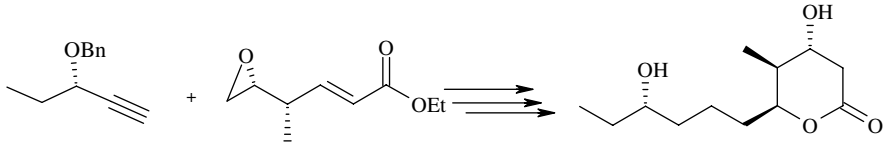


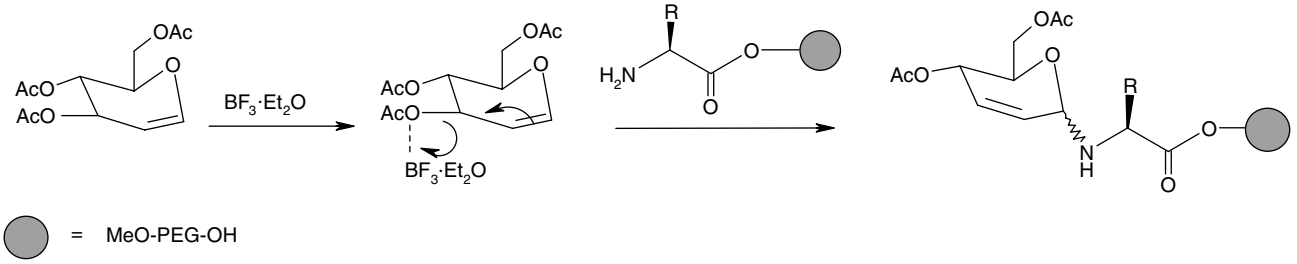
Reduction of *o*-acylanilines, followed by cyclocondensation with phthalimide under Mitsunobu conditions, provides a convenient two steps entry to diversely substituted isoindolo[1,2-*b*]quinazolin-12(10*H*)-ones.

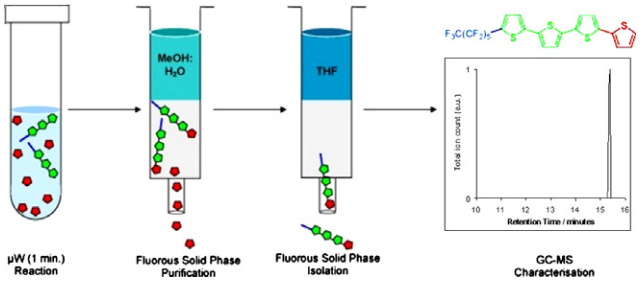


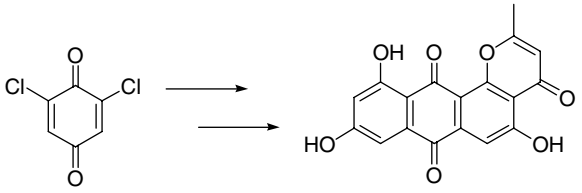


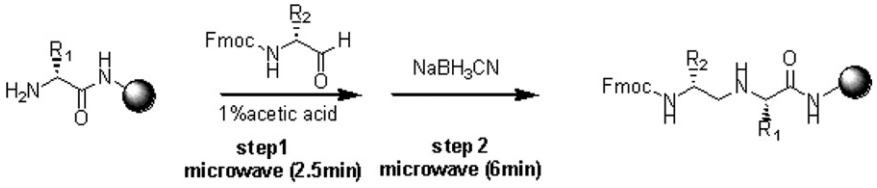
An efficient oxidative esterification of aromatic and aliphatic aldehydes with simple alcohols was accomplished using catalytic amounts of $Cu(ClO_4)_2 \cdot 6H_2O$ and $InBr_3$ with *tert*-butyl hydroperoxide as an oxidant.

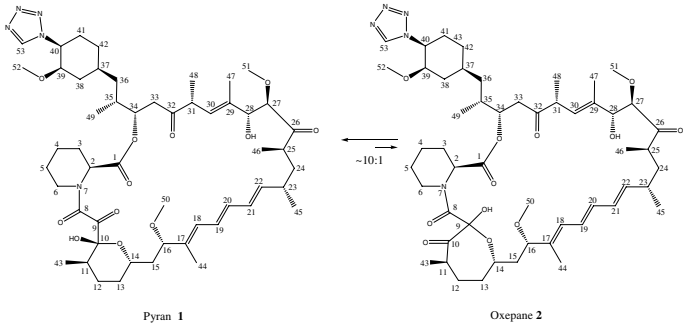


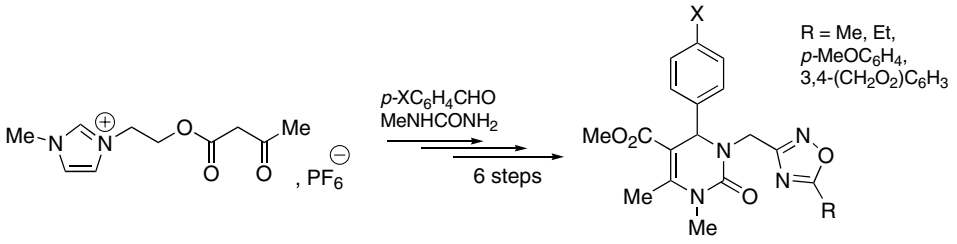




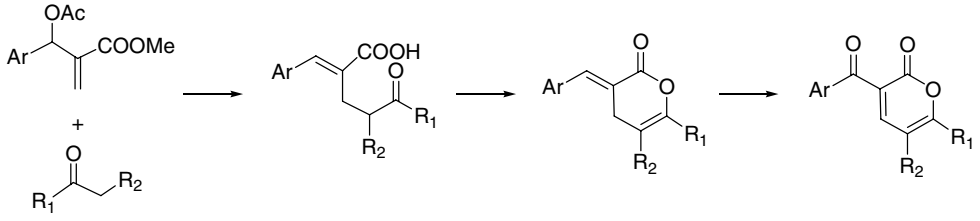








4: Ionic Liquid Phase **12(a-f):** X = Cl, Br.



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*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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